

ROTATING CIRCULAR DIE

ABSTRACT OF THE DISCLOSURE

A rotating circular die for mounting on an extruder. The die incorporates an inner component comprising a cone with support independent of the outer component and extruder, thereby permitting forward and backward adjustment of the inner component in relation to the outer component during actual processing. Independent support for the inner cone eliminates the sanitary and microbial concerns that are present when die assemblies are housed within the extruder. The inner cone is self-centering to provide extrudate of uniform thickness and capable of imparting rotational shearing stresses on the extrudate to provide for starch alignment. The rotation of the inner component considered with the positional adjustability produces uniform extrudate as well as minimizes production downtime by reducing clogging and backup risks and providing for easy clean up.